

Derek Ni

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<https://derekni.com> | <https://github.com/derekni>

EDUCATION

Cornell University

B.S. Computer Science, GPA: 4.118

Courses: Algorithms, Functional Programming, Objected Oriented Programming, Database Systems, Artificial Intelligence, Discrete Structures, Backend Development, Probability & Statistics

Ithaca, NY

Expected May 2023

Thomas Jefferson High School for Science and Technology

Advanced Studies Diploma

Alexandria, VA

Graduated June 2019

WORK EXPERIENCE

Amazon

SDE Intern

Seattle, WA

May 2021 – Aug 2021

- Redesigned an API for getting messages with the Alexa Messaging Service
- Implemented encrypted pagination tokens for paging through messages with the API

Tesla

Mobile Engineer Intern

Palo Alto, CA

Feb 2021 – May 2021

- Developed and improved components in mobile app using TypeScript
- Created simulator to test code endpoints using Flask, Python, and WebSockets

Cornell University

CS 2110 Consultant

Ithaca, NY

Aug 2020 – Dec 2020

- Hosted weekly office hours to help students with object-oriented programming concepts
- Graded and gave feedback on coding assignments, quizzes, and exams for 400+ students

PERSONAL PROJECTS

[Ascii Stream](#) | IvyHacks 2nd Overall | TypeScript, WebRTC

- Video call web app that converts video to ASCII art to save bandwidth
- Implemented with WebRTC for real time text and audio communication between users
- Deployed as Next.js web app to Vercel, with Python script to convert video frames to ASCII art

[Minto](#) | TypeScript

- Productivity Chrome extension to incentivize productivity by the minute through rewards
- Wrote scripts to track minutes worked in sessions, which users can spend on rewards they create

[TaskTime](#) | Swift

- Productivity iOS app to motivate users to complete to-dos and keep healthy habits
- Created gamified to-do list to increase user productivity, through points and rewards

ORGANIZATIONS

Cornell ACSU

Academic Officer

Ithaca, NY

October 2019 – Present

- Organized academic events for 400+ students interested in computer science
- Led collaboration with Cornell AppDev to increase outreach with an iOS workshop

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C#, Swift, OCaml, HTML and SQL

Tools: ReactJS, Git, Visual Studio Code, Eclipse, XCode and Jupyter Notebook